GEORGIA
STATE DIVISION OF CONSERVATION
DEPARTMENT OF MINES, MINING AND GEOLOGY
GARLAND PEYTON, Director

THE GEOLOGICAL SURVEY
Bulletin Number 70

WELL LOGS OF THE COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrick, Geologist
United States Geological Survey

Prepared cooperatively by the U. S. Geological Survey

ATLANTA
1961

	Thickness (feet)	Depth (feet)
Limestone: light-gray, extremely dense and crystalline (highly calcitized), fossiliferous (as above)	90	720
Pseudophragmina sp., *Lepidocyclina* sp. at 700-710.		
Limestone: white, soft and chalky in streaks; otherwise considerably calcitized and crystalline, fossiliferous (as above)	100	820
Heterostegina ocalana at 760-770.		
Amphistegina pinarensis var. at 770-780.		
Limestone: light-gray, extremely dense and crystalline, as interval 630-720	20	840
Summary:		
No samples	40	40
In Pliocene to Recent (undifferentiated)	55	95
Miocene (undifferentiated)	420	515
Oligocene (undifferentiated)	75	590
No samples	20	610
In upper Eocene (Ocala limestone)	230	840
Potential Water-Bearing Zones:		
Limestone	325	840

APPLING COUNTY

Location: 2,433 ft. north, 2,796 ft. west of southeast corner of Land Lot 522, 2nd Land District — Well No.: GGS 148
Elev.: 229
Owner: No. 1 W. E. Bradley
Driller: Felsenthal and Weatherford
Drilled: July 1947

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Sand: fine to medium-grained, angular	10	10
No samples	50	60
Clay: pale-green, sandy; interbedded sand, fine to medium-grained, angular, phosphatic at depth	300	360
Jet-black phosphatic pebbles abundant at 180-210.		
Limestone: cream, somewhat saccharoidal and crystalline, rather dense, sandy, phosphatic, fossiliferous at depth (macroshells); scattered beds of sand, as above	120	480
Macroshells at 450-470.		
Limestone: as above, but somewhat dolomitized	40	520

	Thickness (feet)	Depth (feet)
Oligocene (Undifferentiated):		
Limestone: light-gray, much calcitized, massive, nodular, fossiliferous (some megafossils, echinoid and bryozoan remains, and Foraminifera)	120	640
Rotalia mexicana var. at 540-550.		
Gypsina globula[1], *Asterocyclina* sp. at 560-570.		
Dictyoconus[1] sp. at 580-590.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: cream, more porous than above, fossiliferous (macroshells, echinoid and bryozoan remains, and Foraminifera)	120	760
Lepidocyclina sp., *Camerina* sp. at 640-650.		
Operculinoides ocalanus, *Asterocyclina* sp. at 650-660.		
Camerina striatoreticulata at 700-710.		
Limestone: as above, but much calcitized, crystalline, massive, fossiliferous (Foraminifera at certain levels)	160	920
Operculina mariannensis at 780-790.		
Various species of larger Foraminifera abundant at 800-900.		
In Middle Eocene: Claiborne Group: Lisbon Formation:		
Limestone: cream, much calcitized, somewhat granular in texture, rather massive, coarsely glauconitic at depth, cherty at certain levels; interbedded limestone, gray, dense, crystalline, massive, sandy, glauconitic (finely disseminated), fossiliferous (macroshells and bryozoan remains at certain horizons); sand, fine to medium-grained, angular, somewhat phosphatic	430	1,350
Cibicides westi at 1260-1270.		
Operculinoides sp. at 1300-1310.		
Sand: fine to coarse-grained, angular; marl, gray, somewhat carbonaceous, micaceous, glauconitic	80	1,430
Limestone: white, dense, much calcitized, coarsely glauconitic, fossiliferous; dolomitic limestone, dark-brown, saccharoidal, glauconitic	100	1,530
Macroshells common to abundant at 1450-1530.		

[1]Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Tallahatta Formation:		
Sand: fine to coarse-grained, angular, abundantly glauconitic; relatively thin stringers of marl, dark-gray, silty, glauconitic, fossiliferous (Foraminifera at certain horizons)	160	1,690
Cibicides tallahattensis at 1570-1580.		
Valvulineria jacksonensis var. at 1600-1610.		
Lower Eocene and Paleocene (Undifferentiated):		
Marl: gray, silty, carbonaceous, micaceous, glauconitic, fossiliferous (Foraminifera)	70	1,760
Eponides dorfi, Globorotalia wilcoxensis at 1715-1538.		
No samples	30	1,790
Limestone: gray, much calcitized, dense, crystalline, massive, glauconitic	90	1,880
Sand: fine to medium-grained, angular; interbedded marl, dark-gray, somewhat fissile, carbonaceous, micaceous (finely disseminated); and limestone, as above	215	2,095
Upper Cretaceous: Post-Tuscaloosa (Undifferentiated):		
Sand: fine to medium-grained, angular; interbedded marl, gray, silty, glauconitic, micaceous, pyritiferous, fossiliferous (macroshells, Ostracods, and Foraminifera at certain levels)	215	2,310
Anomalina pseudopapillosa at 2155-2170.		
Globotruncana sp., *Gaudryina* sp. at 2275-2290.		
Dorothia sp., *Guembelina striata* at 2300-2310.		
Marl: gray to brown, more fissile (shaley) with depth, silty, micaceous, carbonaceous, pyritiferous, fossiliferous (megafossils, Ostracods, and Foraminifera at certain levels)	440	2,750
Cibicides harperi at 2480-2490.		
Planulina taylorensis at 2580-2590.		
Sand: fine to medium-grained, angular, phosphatic; interbedded marl, as above	150	2,900
Marl: brown, fissile, silty, carbonaceous, micaceous, pyritiferous, fossiliferous (Foraminifera)	50	2,950

	Thickness (feet)	Depth (feet)
Inoceramus prisms common, *Kyphopyxa christneri* at 2900-2910.		
Sand: fine to coarse-grained, angular, somewhat indurated at certain levels, micaceous, phosphatic, fossiliferous, (macroshells, a coquina at certain horizons)	100	3,050
Tuscaloosa Formation:		
Sand: fine to coarse-grained, angular, glauconitic, fossiliferous (macroshells)	70	3,120
Sand: dark-gray to black, fissile, carbonaceous (finely disseminated); interbedded sand, as above	200	3,320
Sand: fine-grained, indurated, micaceous, glauconitic	100	3,420
Sand: coarse-grained, massive, angular, arkosic; clay, dark-brown to brick-red, waxy, micaceous, sandy	540	3,960
Siderite nodules abundant at 3480-3490.		
Lower Cretaceous (?) (Undifferentiated):		
Clay: pale-green to brick-red, waxy, highly micaceous, sandy; interbedded sand, coarse-grained, angular, arkosic	115	4,075
Basement Complex (Undifferentiated):		
Crystalline rock, undifferentiated	23	4,098

Summary:

Miocene (undifferentiated)	520	520
Oligocene (undifferentiated)	120	640
Upper Eocene (Ocala limestone)	280	920
In middle Eocene (Lisbon formation)	610	1,530
In middle Eocene (Tallahatta formation)	160	1,690
Lower Eocene and Paleocene (undifferentiated)	405	2,095
Upper Cretaceous (post-Tuscaloosa undifferentiated)	955	3,050
Upper Cretaceous (Tuscaloosa formation)	910	3,960
Lower Cretaceous (?) (undifferentiated)	115	4,075
Basement complex (undifferentiated)	23	4,098

Potential Water-Bearing Zones:

Limestone	320	860
Sand: fine to coarse-grained	50	1,430